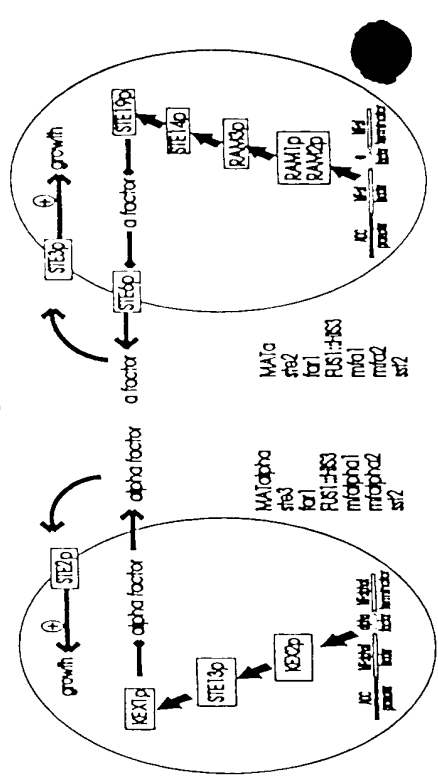
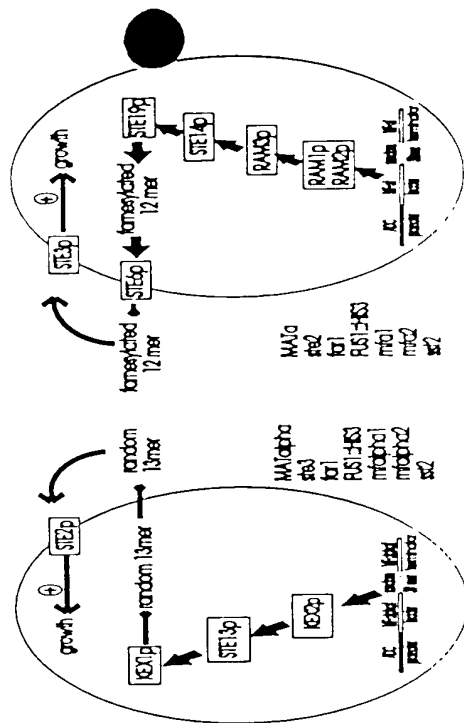


Synthesis, Release, and Targets of Mating Pheromones

Stage 2



Stage 3



Stage 1

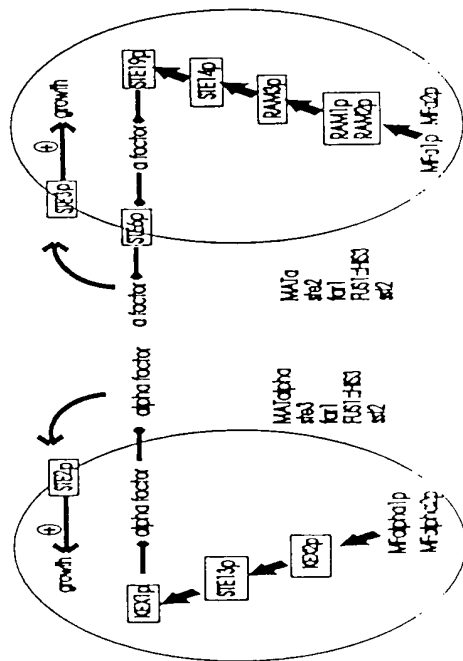


Figure 1

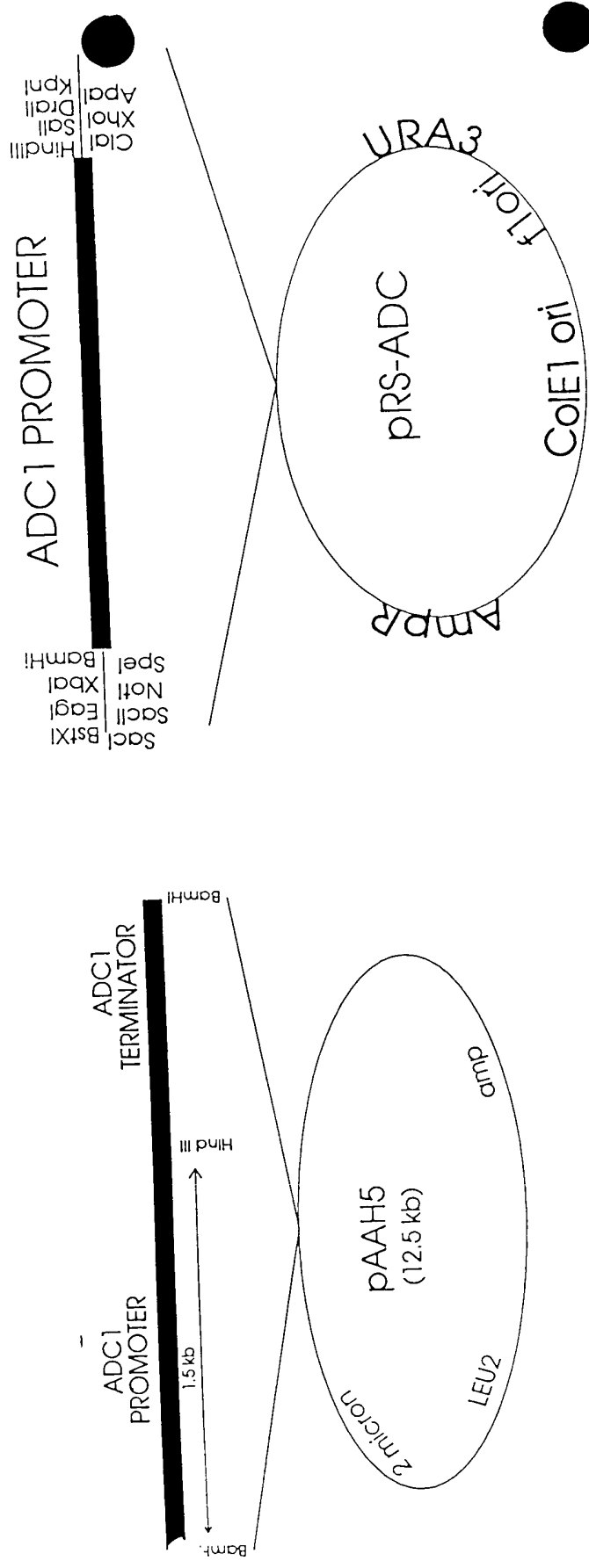


Figure 3. Structures of pAAH5 and pRS-ADC,

K R E A E A X₁₃ *

CGTGAAGC TTAAGCGTGAGGCAGAGCT(NNK)₁₃T GATCATCCG

AflII

BclI

M

AAGCTTAAAGAATG

HindIII

leader
sequence

K

E

E

G

V

S

L

L

XhoI

AAAGAAGAGGGGTATCTTTCCTTAAGCTCGAGATCT

AflII

BglII

transcript
terminator

AAGCTT

HindIII

BstXI
EcoRI
XbaI
BamHI

ADC1 PROMOTER

HindIII
ScaI
DraI
KpnI

SacII
NotI
SpeI

ClaI
XhoI
BglII
AclI

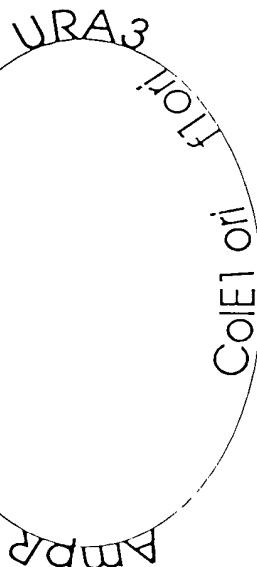


Figure 4. Schematic diagram of the structure of the plasmid resulting from insertion of random oligonucleotides into pADC-MFalpha. This plasmid expresses random peptides in the context of the MFalpha1 signal and leader peptide.

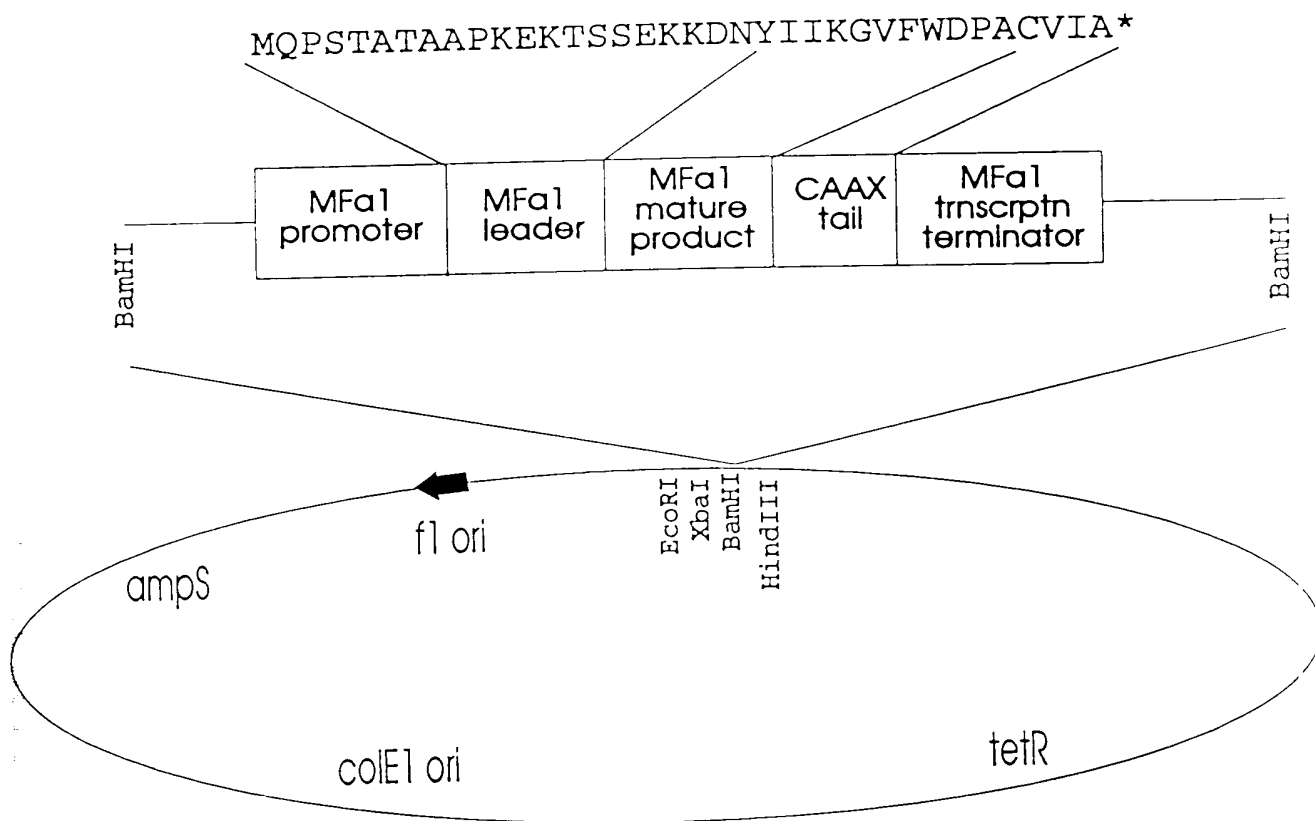


Figure 5. Schematic to illustrate: 1. the organization of MFa1; 2. the amino acid sequence of the MFa1 coding region; 3. the point of insertion of the fragment in pALTER.

... S S E K K D N X₁₁ C V I A *

GGTAC TCGAGTGAAGAAGGACAAC (NNK)₁₁ TGTGTTATGCTTAA GTACG

AflII

XhoI

SacI

AflII

XhoI

GCCGCTCCAAAAGAAAAGACC**TCGAGCTCGCTTAAG**

A A P K E K T S S

MfaI
leader

AGCTTTCGAATAGAAATG

HindIII

transcript
terminator

AAGCTT

HindIII

HindIII
SacI
XhoI
AflII

ADC1 PROMOTER

SacI
BstXI
EagI
XbaI
SpeI
BamHI

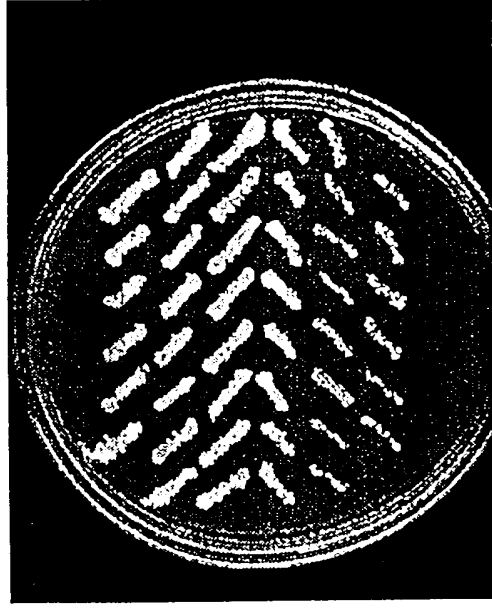
URA₃
ColE1 ori
amp^r

Figure 6. Schematic diagram of the structure of the plasmid resulting from insertion of random oligonucleotides into pADC-MFa. This plasmid expresses random peptides in the context of the MFa1 leader and C-terminal CVIA tetrapeptide.

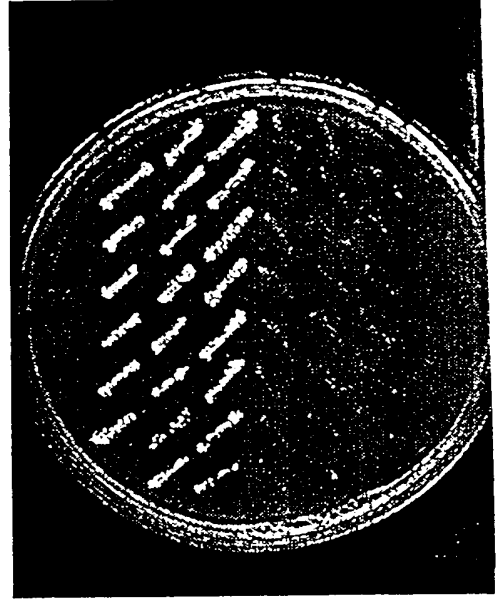
Figure 7

Autocrine Mata Strain Secretes and Responds to Signalling by alpha-Factor

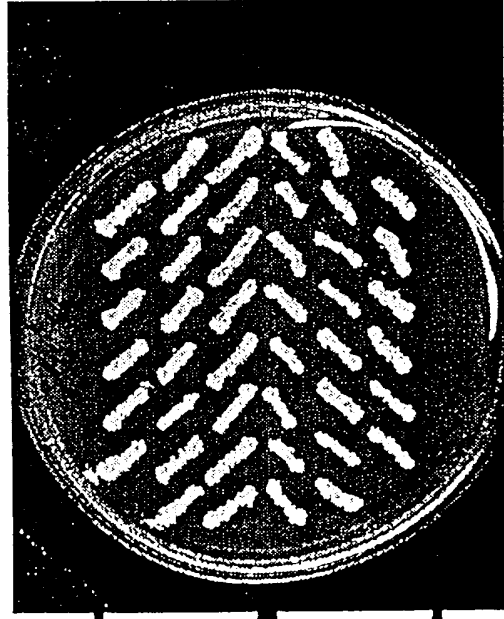
-HIS+1mM aminotriazole



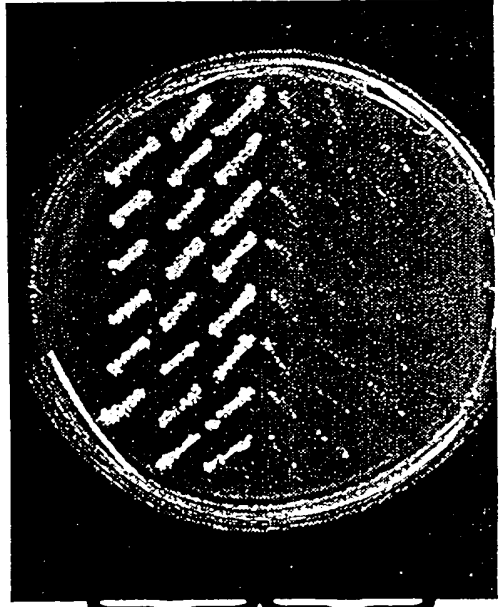
-HIS+40mM aminotriazole



-HIS



-HIS+20mM aminotriazole



vector
+ insert

empty
vector

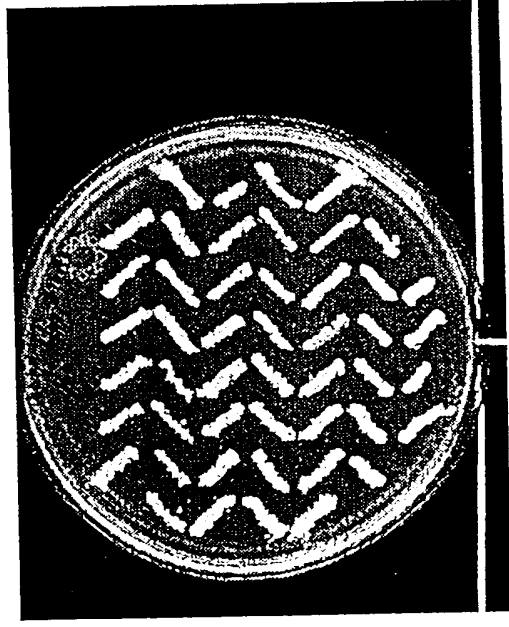
vector
+ insert

empty
vector

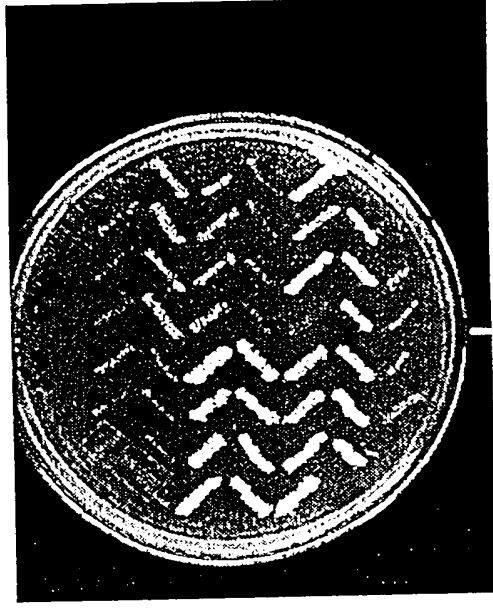
Figure 8

Autocrine MATa Strain Secretes
and Responds to Signalling by α -Factor

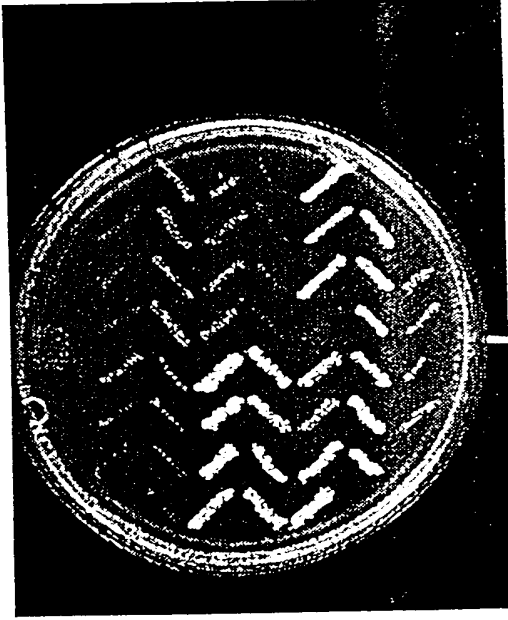
-HIS



-HIS+5mM aminotriazole



-HIS+10mM aminotriazole



-HIS+20mM aminotriazole



Figure 9. pYMA177 containing human MDR1 mutant (G185V mutation)

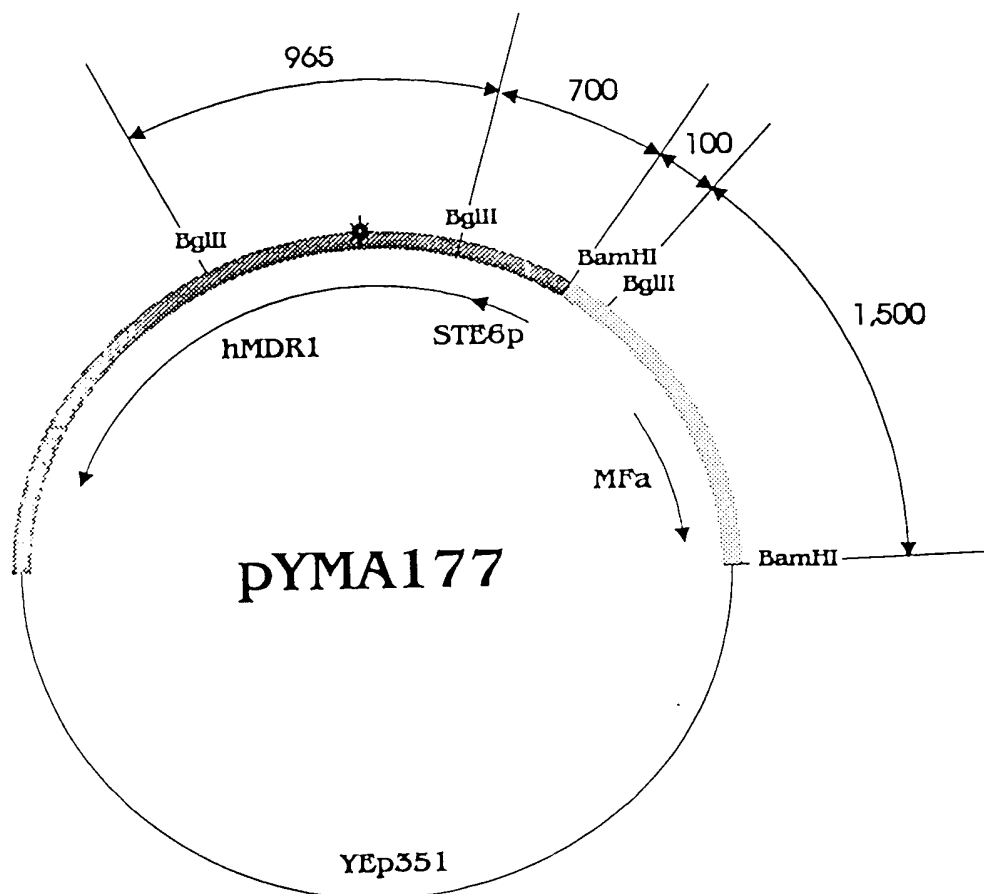


FIG. 10

Activity of a *fus1* promoter in response to signalling by human C5a expressed in autocrine strains of yeast.

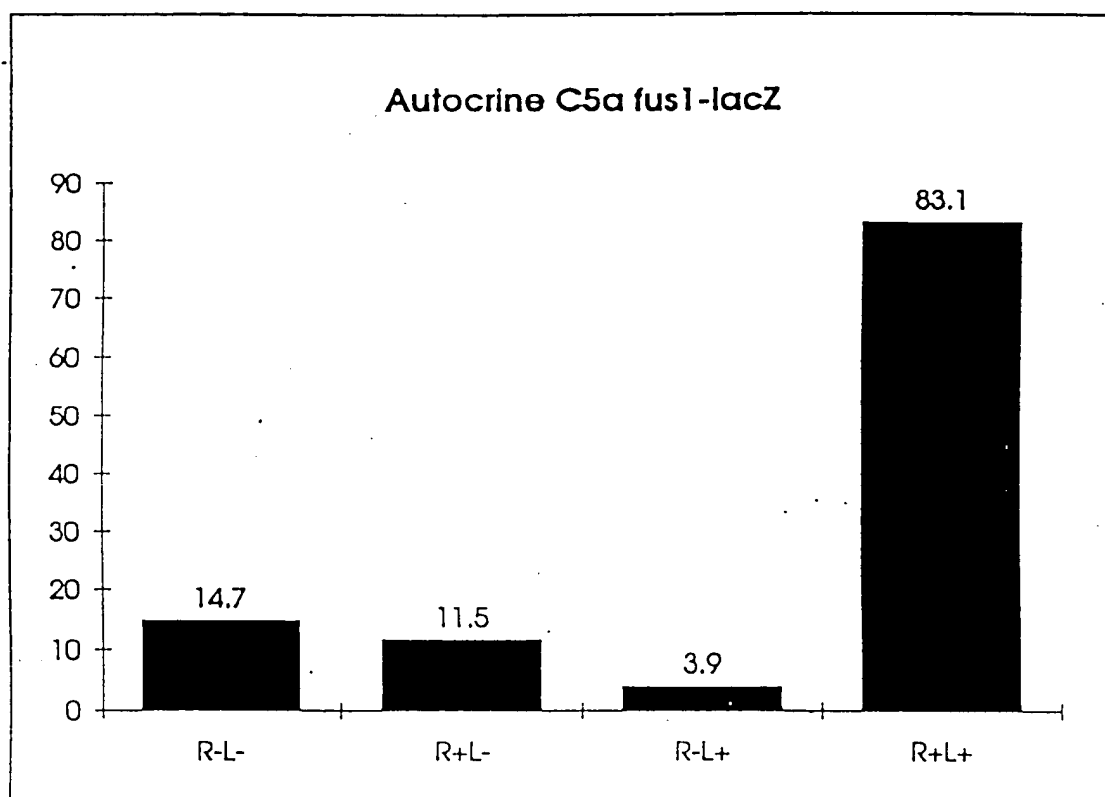


FIG. 11
G α switch region hybrids.

